

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P710074

Luminaire Tested: RA4LS9FSD2W1EWHDM-600lm-3500K

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P710074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A23044405A001)
Test Lab: EVERFINE
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RA4LS9FSD2W1EWHDM-600lm-3500K
Description: 4IN DM SELECTABLE LUMENS
Light Source: SELECTABLE LUMEN/CCT LEDs 90CRI / 3500K CCT
Ballast/Driver: -

Summary

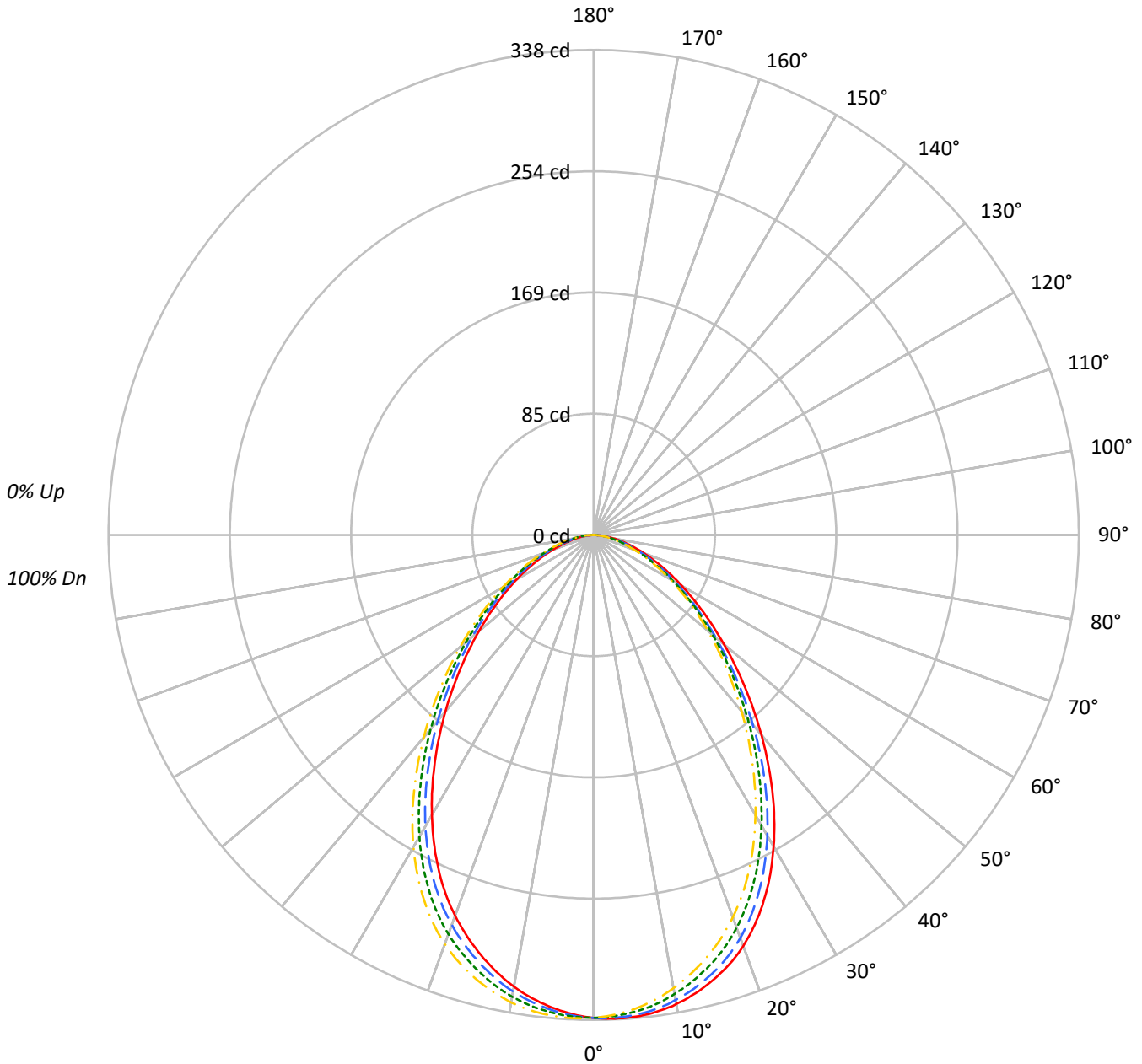
Lumens per Lamp: 896.88 (1 lamp)
Luminaire Lumens: 635.0 lumens
Efficiency: 70.8%
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.09 / 1.14
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	84	84	84	84	82	82	82	82	79	79	79	75	75	75	72	72	72	71	71	71	71	71	71		
	1	78	75	73	70	76	74	71	69	71	69	67	68	67	65	66	64	63	62	62	62	62	62	62		
	2	72	67	63	59	70	66	62	59	63	60	57	61	58	56	59	57	55	54	54	54	54	54	54		
	3	67	60	55	51	65	59	54	51	57	53	50	55	52	49	53	51	48	47	47	47	47	47	47		
	4	62	54	49	44	60	53	48	44	52	47	44	50	46	43	48	45	42	41	41	41	41	41	41		
	5	57	49	43	39	56	48	43	39	47	42	39	46	41	38	44	41	38	36	36	36	36	36	36		
	6	53	45	39	35	52	44	39	35	43	38	34	42	37	34	41	37	34	33	33	33	33	33	33		
	7	50	41	35	31	49	40	35	31	39	35	31	38	34	31	37	34	31	29	29	29	29	29	29		
	8	47	38	32	28	45	37	32	28	36	32	28	35	31	28	35	31	28	27	27	27	27	27	27		
	9	44	35	29	26	43	34	29	26	34	29	26	33	29	26	32	28	25	24	24	24	24	24	24		
	10	41	32	27	24	40	32	27	24	31	27	24	31	26	23	30	26	23	22	22	22	22	22	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	42361	42361	42361	42361
5°	42573	42131	41778	42220
10°	42427	41519	40855	41775
15°	41849	40520	39504	40885
20°	40821	39013	37821	39642
25°	38992	36798	35576	37798
30°	36446	33976	32784	35283
35°	33308	30758	29621	32279
40°	29867	27403	26417	29029
45°	26394	24152	23297	25771
50°	23201	21145	20440	22711
55°	20318	18409	17838	19967
60°	17846	15933	15555	17518
65°	15664	13639	13371	15455
70°	13688	11480	11186	13431
75°	11962	9433	9190	11573
80°	10219	8190	7682	10219
85°	6931	6931	2744	10397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 300°
 Vertical Angle: 45°
 Luminance: 26928 cd/sqm



TEST NUMBER: P710074

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	31.6	5.0	3.5
10°-20°	87.8	13.8	9.8
20°-30°	123.1	19.4	13.7
30°-40°	127.9	20.1	14.3
40°-50°	108.1	17.0	12.1
50°-60°	78.4	12.3	8.7
60°-70°	48.7	7.7	5.4
70°-80°	23.4	3.7	2.6
80°-90°	6.0	0.9	0.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	242.6	38.2	27.0
0°-40°	370.4	58.3	41.3
0°-60°	556.9	87.7	62.1
0°-90°	635.0	100.0	70.8
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	635.0	100.0	70.8

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	337	337	337	337	337	
5°	337	334	331	334	337	32
15°	321	311	303	314	321	90
25°	281	265	256	272	281	129
35°	217	200	193	210	217	135
45°	148	136	131	145	148	115
55°	93	84	81	91	93	83
65°	53	46	45	52	53	52
75°	25	19	19	24	25	26
85°	5	5	2	7	5	6
90°	0	0	0	0	0	



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CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6	336.6
0.5°	336.9	337.0	336.8	336.4	336.2	336.3	336.3	336.5	336.6	336.5	336.7
1°	337.1	337.2	336.8	336.3	335.9	336.0	335.9	336.3	336.4	336.4	336.8
1.5°	337.3	337.2	336.8	336.2	335.6	335.6	335.5	335.9	336.1	336.4	336.9
2°	337.3	337.3	336.7	335.9	335.2	335.1	334.9	335.5	335.8	336.2	336.9
2.5°	337.5	337.3	336.5	335.6	334.8	334.6	334.3	335.0	335.5	336.0	336.9
3°	337.4	337.2	336.4	335.3	334.3	334.0	333.7	334.5	335.1	335.7	336.9
3.5°	337.4	337.0	336.1	334.9	333.7	333.5	333.0	333.9	334.6	335.5	336.7
4°	337.3	336.9	335.9	334.5	333.1	332.8	332.3	333.3	334.1	335.0	336.5
4.5°	337.2	336.5	335.5	334.0	332.5	332.0	331.5	332.6	333.6	334.7	336.3
5°	337.0	336.3	335.1	333.5	331.7	331.2	330.7	331.9	332.9	334.2	335.9
5.5°	336.8	335.9	334.7	332.9	331.0	330.4	329.9	331.2	332.3	333.7	335.6
6°	336.4	335.6	334.2	332.3	330.2	329.5	328.9	330.3	331.6	333.1	335.3
6.5°	336.1	335.1	333.7	331.6	329.2	328.5	328.0	329.4	330.8	332.5	334.8
7°	335.7	334.6	333.1	330.9	328.3	327.5	326.9	328.6	330.0	331.9	334.3
7.5°	335.2	334.1	332.4	330.0	327.3	326.4	325.9	327.6	329.2	331.2	333.7
8°	334.7	333.5	331.7	329.1	326.3	325.3	324.7	326.6	328.3	330.4	333.2
8.5°	334.1	332.8	330.9	328.2	325.1	324.1	323.6	325.5	327.4	329.6	332.5
9°	333.5	332.1	330.0	327.1	323.8	322.9	322.4	324.4	326.4	328.7	331.9
9.5°	332.9	331.2	329.0	326.0	322.5	321.6	321.1	323.3	325.3	327.8	331.1
10°	332.0	330.3	328.0	324.9	321.2	320.2	319.7	322.1	324.1	326.9	330.3
10.5°	331.2	329.4	326.9	323.7	319.8	318.7	318.3	320.9	323.1	325.8	329.4
11°	330.3	328.4	325.8	322.5	318.4	317.3	316.9	319.6	321.8	324.7	328.4
11.5°	329.3	327.3	324.8	321.2	316.9	315.7	315.3	318.1	320.5	323.5	327.4
12°	328.3	326.2	323.6	319.9	315.4	314.2	313.7	316.7	319.2	322.2	326.3
12.5°	327.3	325.1	322.4	318.6	313.8	312.5	312.0	315.1	317.9	320.9	325.1
13°	326.2	323.9	321.0	317.2	312.3	310.9	310.3	313.5	316.4	319.6	324.0
13.5°	325.0	322.7	319.7	315.7	310.6	309.1	308.6	311.9	314.8	318.2	322.8
14°	323.8	321.4	318.4	314.1	308.9	307.4	306.9	310.2	313.3	316.8	321.5
14.5°	322.5	320.1	316.9	312.7	307.2	305.6	305.1	308.5	311.8	315.3	320.3
15°	321.2	318.6	315.4	311.0	305.4	303.8	303.2	306.8	310.0	313.8	318.8
15.5°	319.9	317.2	313.8	309.5	303.6	301.9	301.3	305.0	308.4	312.2	317.4
16°	318.4	315.7	312.3	307.7	301.8	300.0	299.4	303.2	306.7	310.6	315.9
16.5°	317.0	314.1	310.6	305.9	299.8	297.9	297.4	301.3	304.9	309.0	314.4
17°	315.5	312.4	308.9	304.0	297.8	296.0	295.5	299.4	303.2	307.3	312.8
17.5°	313.9	310.7	307.1	302.1	295.7	293.9	293.3	297.4	301.3	305.5	311.2
18°	312.3	308.9	305.2	300.1	293.6	291.8	291.2	295.5	299.4	303.8	309.6
18.5°	310.5	307.0	303.2	298.0	291.4	289.5	289.1	293.4	297.5	301.9	307.8
19°	308.7	305.0	301.1	295.8	289.1	287.4	286.9	291.3	295.5	300.0	306.1
19.5°	306.8	302.9	298.9	293.6	286.9	285.1	284.7	289.1	293.4	298.0	304.2
20°	304.8	300.7	296.8	291.3	284.4	282.8	282.4	286.9	291.2	296.0	302.4
20.5°	302.7	298.5	294.5	289.0	281.9	280.3	279.9	284.7	289.2	294.0	300.4
21°	300.5	296.3	292.1	286.5	279.5	277.9	277.6	282.5	286.9	291.8	298.3



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CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
22.5°	293.7	289.0	284.7	278.9	271.6	270.1	270.1	275.2	279.9	284.9	291.8
23°	291.2	286.3	282.0	276.2	268.9	267.4	267.4	272.8	277.4	282.5	289.4
23.5°	288.7	283.7	279.3	273.5	266.0	264.7	264.7	270.1	274.8	280.0	287.0
24°	286.2	281.0	276.6	270.7	263.1	261.9	262.0	267.4	272.3	277.5	284.5
24.5°	283.5	278.3	273.9	268.0	260.2	259.1	259.1	264.7	269.5	274.9	282.0
25°	280.8	275.5	271.0	265.0	257.3	256.1	256.2	262.0	266.8	272.2	279.4
25.5°	278.0	272.6	268.1	262.2	254.3	253.1	253.3	259.1	264.0	269.4	276.7
26°	275.2	269.6	265.1	259.2	251.3	250.2	250.3	256.2	261.2	266.6	274.0
26.5°	272.4	266.6	262.2	256.1	248.3	247.3	247.4	253.3	258.3	263.8	271.2
27°	269.4	263.5	259.1	253.0	245.2	244.0	244.3	250.4	255.3	261.0	268.4
27.5°	266.4	260.4	255.9	250.0	242.0	241.0	241.2	247.4	252.4	258.1	265.5
28°	263.4	257.3	252.7	246.8	238.9	237.9	238.2	244.3	249.3	255.1	262.6
28.5°	260.3	254.0	249.6	243.6	235.7	234.7	235.1	241.3	246.4	252.0	259.6
29°	257.1	250.7	246.4	240.3	232.5	231.5	231.9	238.2	243.3	249.0	256.6
29.5°	254.0	247.4	243.1	237.1	229.2	228.2	228.7	234.9	240.3	245.9	253.7
30°	250.8	244.1	239.7	233.8	226.0	225.0	225.6	231.8	237.0	242.8	250.6
30.5°	247.6	240.8	236.4	230.6	222.7	221.8	222.2	228.6	233.8	239.6	247.4
31°	244.3	237.4	233.1	227.3	219.4	218.5	219.1	225.4	230.6	236.5	244.2
31.5°	240.9	233.9	229.7	223.9	216.2	215.3	215.8	222.2	227.5	233.1	241.0
32°	237.5	230.4	226.3	220.6	212.9	212.0	212.6	218.9	224.1	230.0	237.7
32.5°	234.1	227.0	222.8	217.2	209.5	208.7	209.2	215.7	220.9	226.6	234.5
33°	230.7	223.5	219.4	213.8	206.2	205.4	205.9	212.4	217.5	223.3	231.2
33.5°	227.3	219.9	215.9	210.5	202.8	202.2	202.7	209.1	214.3	220.1	227.9
34°	223.8	216.4	212.5	207.0	199.4	198.9	199.3	205.7	211.0	216.7	224.5
34.5°	220.3	212.9	209.0	203.6	196.1	195.5	196.0	202.5	207.6	213.4	221.2
35°	216.8	209.3	205.5	200.2	192.8	192.3	192.8	199.2	204.3	210.1	217.9
35.5°	213.3	205.8	202.0	196.9	189.5	189.0	189.6	195.9	201.0	206.7	214.4
36°	209.8	202.2	198.5	193.5	186.1	185.7	186.3	192.6	197.6	203.4	211.0
36.5°	206.3	198.6	195.0	190.1	182.9	182.5	183.1	189.2	194.3	199.9	207.7
37°	202.8	195.1	191.6	186.8	179.6	179.4	179.8	186.0	190.9	196.6	204.3
37.5°	199.2	191.5	188.0	183.3	176.3	175.9	176.6	182.7	187.6	193.3	200.9
38°	195.7	188.0	184.6	180.0	173.0	172.8	173.4	179.4	184.3	190.0	197.5
38.5°	192.3	184.5	181.2	176.7	169.8	169.6	170.2	176.2	181.1	186.6	194.1
39°	188.7	181.0	177.8	173.4	166.7	166.4	167.0	173.0	177.7	183.2	190.7
39.5°	185.2	177.5	174.3	170.0	163.4	163.2	163.9	169.7	174.5	179.9	187.3
40°	181.8	174.1	171.0	166.8	160.3	160.1	160.8	166.6	171.2	176.7	184.0
40.5°	178.4	170.6	167.7	163.6	157.1	157.0	157.7	163.5	168.0	173.3	180.7
41°	174.8	167.2	164.2	160.4	154.0	154.0	154.5	160.3	164.7	170.1	177.3
41.5°	171.5	163.9	160.9	157.2	150.9	150.8	151.5	157.2	161.6	166.9	174.0
42°	168.0	160.4	157.6	154.0	147.9	147.9	148.5	154.1	158.4	163.6	170.7
42.5°	164.7	157.1	154.4	150.8	144.8	144.9	145.5	151.0	155.3	160.4	167.4
43°	161.4	153.8	151.1	147.7	141.8	141.9	142.5	148.0	152.2	157.2	164.2
43.5°	158.1	150.6	148.1	144.7	138.9	139.0	139.5	145.0	149.0	154.1	161.0



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	148.3	141.0	138.6	135.7	130.1	130.5	130.9	136.2	140.0	144.8	151.3
45.5°	145.1	137.8	135.6	132.7	127.3	127.7	128.1	133.4	137.1	141.7	148.2
46°	142.0	134.8	132.6	129.9	124.5	125.0	125.3	130.6	134.1	138.7	145.1
46.5°	139.0	131.7	129.7	127.1	121.7	122.2	122.7	127.8	131.2	135.8	142.1
47°	135.9	128.8	126.9	124.3	119.0	119.4	120.0	125.0	128.3	132.9	139.1
47.5°	132.9	125.9	124.0	121.5	116.3	116.9	117.3	122.2	125.6	129.9	136.1
48°	130.0	122.9	121.1	118.7	113.7	114.3	114.6	119.4	122.8	127.0	133.2
48.5°	127.1	120.1	118.2	115.9	111.0	111.7	112.0	116.9	120.0	124.2	130.4
49°	124.2	117.2	115.5	113.2	108.5	109.2	109.5	114.2	117.2	121.4	127.6
49.5°	121.4	114.5	112.7	110.6	105.9	106.6	106.9	111.6	114.5	118.6	124.8
50°	118.5	111.8	110.0	108.0	103.4	104.1	104.4	109.1	111.9	116.0	122.0
50.5°	115.7	109.1	107.4	105.4	100.9	101.7	102.0	106.5	109.4	113.3	119.2
51°	113.0	106.4	104.8	102.9	98.5	99.3	99.6	104.1	106.8	110.7	116.3
51.5°	110.2	103.8	102.2	100.3	96.1	96.9	97.2	101.6	104.3	108.1	113.7
52°	107.6	101.4	99.7	97.8	93.8	94.5	94.8	99.2	101.8	105.5	111.0
52.5°	105.1	98.9	97.3	95.4	91.4	92.2	92.5	96.8	99.3	103.0	108.4
53°	102.5	96.4	94.8	93.0	89.2	89.9	90.2	94.4	96.9	100.6	105.8
53.5°	100.0	94.0	92.5	90.7	86.9	87.7	87.9	92.1	94.5	98.1	103.3
54°	97.5	91.7	90.1	88.4	84.7	85.5	85.7	89.8	92.2	95.7	100.7
54.5°	95.0	89.3	87.8	86.2	82.5	83.3	83.5	87.6	89.9	93.3	98.3
55°	92.6	87.0	85.5	83.9	80.3	81.1	81.3	85.4	87.6	91.0	95.9
55.5°	90.3	84.8	83.3	81.7	78.2	79.0	79.3	83.1	85.4	88.7	93.6
56°	88.0	82.6	81.1	79.5	76.1	76.9	77.2	81.0	83.2	86.4	91.2
56.5°	85.7	80.3	79.0	77.4	74.0	74.8	75.1	78.9	81.0	84.2	88.9
57°	83.5	78.3	76.8	75.3	71.9	72.9	73.1	76.8	78.9	82.0	86.6
57.5°	81.3	76.2	74.7	73.2	70.0	70.9	71.0	74.8	76.8	79.9	84.4
58°	79.1	74.1	72.7	71.1	68.0	68.9	69.1	72.7	74.8	77.7	82.2
58.5°	77.0	72.1	70.7	69.1	66.0	66.9	67.1	70.7	72.7	75.6	80.0
59°	74.9	70.1	68.7	67.2	64.3	65.0	65.4	68.8	70.7	73.6	77.9
59.5°	72.9	68.2	66.8	65.2	62.5	63.1	63.6	66.8	68.7	71.6	75.9
60°	70.9	66.2	64.8	63.3	60.8	61.3	61.8	64.9	66.7	69.6	73.7
60.5°	68.9	64.5	63.0	61.4	59.0	59.4	60.0	63.0	65.0	67.6	71.7
61°	67.0	62.8	61.1	59.6	57.2	57.6	58.3	61.2	63.2	65.6	69.7
61.5°	65.1	61.1	59.3	57.8	55.4	55.8	56.5	59.4	61.5	63.9	67.8
62°	63.2	59.4	57.5	56.0	53.7	54.1	54.7	57.5	59.7	62.2	65.8
62.5°	61.3	57.6	55.8	54.2	52.0	52.4	53.0	55.8	57.9	60.5	63.9
63°	59.6	55.9	54.1	52.4	50.3	50.7	51.3	54.1	56.2	58.8	62.1
63.5°	57.8	54.2	52.4	50.8	48.6	49.0	49.7	52.4	54.5	57.0	60.2
64°	56.0	52.5	50.7	49.1	47.0	47.4	48.0	50.7	52.7	55.3	58.4
64.5°	54.3	50.9	49.0	47.4	45.4	45.8	46.4	49.0	51.1	53.6	56.6
65°	52.6	49.2	47.4	45.8	43.8	44.2	44.9	47.4	49.4	51.9	54.8
65.5°	50.9	47.7	45.9	44.2	42.2	42.6	43.3	45.8	47.8	50.2	53.1
66°	49.3	46.1	44.3	42.7	40.7	41.1	41.7	44.2	46.2	48.6	51.4



TEST NUMBER: P710074

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
67.5°	44.6	41.6	39.8	38.1	36.3	36.6	37.3	39.6	41.5	43.8	46.5
68°	43.0	40.2	38.4	36.7	34.8	35.3	35.9	38.2	40.1	42.3	44.9
68.5°	41.6	38.7	36.9	35.2	33.5	33.8	34.4	36.7	38.6	40.8	43.4
69°	40.1	37.3	35.5	33.9	32.1	32.5	33.1	35.3	37.1	39.4	41.9
69.5°	38.6	36.0	34.2	32.5	30.7	31.1	31.8	33.9	35.7	37.9	40.3
70°	37.2	34.6	32.8	31.2	29.5	29.8	30.4	32.6	34.4	36.5	38.9
70.5°	35.8	33.3	31.5	29.8	28.2	28.5	29.2	31.2	33.0	35.1	37.4
71°	34.5	32.0	30.2	28.6	26.9	27.3	27.9	29.9	31.7	33.7	36.0
71.5°	33.2	30.7	29.0	27.3	25.7	26.1	26.6	28.7	30.4	32.4	34.6
72°	31.8	29.4	27.7	26.1	24.5	24.9	25.4	27.4	29.1	31.1	33.2
72.5°	30.6	28.2	26.5	24.9	23.4	23.7	24.3	26.2	27.8	29.8	31.9
73°	29.3	27.0	25.3	23.8	22.3	22.6	23.2	25.0	26.6	28.6	30.6
73.5°	28.1	25.8	24.2	22.6	21.2	21.5	22.1	23.9	25.5	27.3	29.3
74°	26.9	24.7	23.1	21.5	20.1	20.4	21.0	22.8	24.3	26.1	28.0
74.5°	25.7	23.6	22.0	20.5	19.1	19.4	20.0	21.7	23.2	25.0	26.8
75°	24.6	22.5	21.0	19.4	18.1	18.4	18.9	20.6	22.1	23.8	25.6
75.5°	23.4	21.4	19.9	18.4	17.1	17.4	18.0	19.6	21.0	22.7	24.4
76°	22.3	20.4	18.9	17.5	16.2	16.5	17.0	18.6	20.0	21.7	23.3
76.5°	21.3	19.4	18.0	16.6	15.4	15.6	16.2	17.7	19.0	20.6	22.2
77°	20.2	18.4	17.0	15.7	14.6	14.8	15.3	16.8	18.1	19.6	21.1
77.5°	19.2	17.5	16.1	14.8	13.8	14.0	14.5	15.9	17.1	18.6	20.1
78°	18.2	16.5	15.2	14.0	13.1	13.3	13.7	15.1	16.2	17.6	19.0
78.5°	17.3	15.7	14.4	13.2	12.4	12.7	12.9	14.3	15.3	16.7	18.1
79°	16.2	14.8	13.5	12.5	11.8	12.0	12.2	13.5	14.5	15.8	17.1
79.5°	15.2	13.9	12.8	11.8	11.3	11.4	11.4	12.8	13.8	14.9	16.2
80°	14.1	13.0	12.0	11.3	10.7	10.7	10.6	12.1	13.0	14.1	15.2
80.5°	13.0	12.2	11.3	10.6	10.0	10.0	9.7	11.4	12.4	13.3	14.3
81°	11.9	11.3	10.7	10.0	9.3	9.2	8.9	10.6	11.7	12.5	13.5
81.5°	10.9	10.5	10.0	9.3	8.7	8.4	8.0	9.8	11.1	11.8	12.7
82°	9.9	9.7	9.4	8.7	8.1	7.6	7.0	9.0	10.4	11.2	11.9
82.5°	9.0	8.9	8.8	8.1	7.4	6.9	6.1	8.1	9.7	10.5	11.1
83°	8.2	8.1	8.1	7.4	6.7	6.1	5.3	7.3	9.0	9.8	10.4
83.5°	7.3	7.4	7.5	6.7	6.1	5.3	4.4	6.5	8.4	9.2	9.7
84°	6.4	6.7	6.8	6.0	5.4	4.6	3.5	5.7	7.7	8.5	9.1
84.5°	5.6	5.9	6.2	5.4	4.8	3.9	2.7	4.8	7.1	7.9	8.4
85°	4.8	5.1	5.5	4.8	4.2	3.2	1.9	4.1	6.4	7.2	7.8
85.5°	3.9	4.4	4.9	4.2	3.6	2.7	1.1	3.4	5.7	6.5	7.1
86°	3.0	3.8	4.3	3.4	2.9	2.2	0.6	2.7	5.0	5.7	6.4
86.5°	2.3	3.1	3.7	2.6	2.2	1.7	0.5	2.1	4.4	5.1	5.8
87°	1.5	2.5	3.0	2.0	1.6	1.4	0.4	1.7	3.6	4.2	5.1
87.5°	0.8	2.1	2.3	1.2	1.0	1.0	0.3	1.4	2.9	3.4	4.5
88°	0.6	1.7	1.7	0.4	0.5	0.5	0.2	1.1	2.1	2.6	3.7
88.5°	0.5	1.3	1.1	0.2	0.0	0.1	0.1	0.7	1.6	1.9	2.9



TEST NUMBER: P710074

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0



TEST NUMBER: P710074

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	336.6	336.6
0.5°	336.9	336.9
1°	337.0	337.1
1.5°	337.2	337.3
2°	337.3	337.3
2.5°	337.4	337.5
3°	337.3	337.4
3.5°	337.3	337.4
4°	337.1	337.3
4.5°	336.9	337.2
5°	336.7	337.0
5.5°	336.4	336.8
6°	336.1	336.4
6.5°	335.7	336.1
7°	335.2	335.7
7.5°	334.8	335.2
8°	334.2	334.7
8.5°	333.7	334.1
9°	333.0	333.5
9.5°	332.3	332.9
10°	331.6	332.0
10.5°	330.7	331.2
11°	329.7	330.3
11.5°	328.8	329.3
12°	327.7	328.3
12.5°	326.7	327.3
13°	325.5	326.2
13.5°	324.3	325.0
14°	323.2	323.8
14.5°	321.8	322.5
15°	320.5	321.2
15.5°	319.2	319.9
16°	317.8	318.4
16.5°	316.2	317.0
17°	314.8	315.5
17.5°	313.2	313.9
18°	311.6	312.3
18.5°	309.8	310.5
19°	308.1	308.7
19.5°	306.3	306.8
20°	304.3	304.8
20.5°	302.3	302.7
21°	300.2	300.5



TEST NUMBER: P710074
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
22.5°	293.5	293.7
23°	291.1	291.2
23.5°	288.7	288.7
24°	286.1	286.2
24.5°	283.6	283.5
25°	280.9	280.8
25.5°	278.2	278.0
26°	275.5	275.2
26.5°	272.7	272.4
27°	269.9	269.4
27.5°	266.9	266.4
28°	264.0	263.4
28.5°	261.0	260.3
29°	257.9	257.1
29.5°	254.8	254.0
30°	251.7	250.8
30.5°	248.5	247.6
31°	245.3	244.3
31.5°	242.1	240.9
32°	238.8	237.5
32.5°	235.5	234.1
33°	232.2	230.7
33.5°	228.8	227.3
34°	225.4	223.8
34.5°	222.1	220.3
35°	218.6	216.8
35.5°	215.2	213.3
36°	211.7	209.8
36.5°	208.3	206.3
37°	204.9	202.8
37.5°	201.4	199.2
38°	198.0	195.7
38.5°	194.5	192.3
39°	191.1	188.7
39.5°	187.6	185.2
40°	184.3	181.8
40.5°	181.0	178.4
41°	177.5	174.8
41.5°	174.1	171.5
42°	170.8	168.0
42.5°	167.4	164.7
43°	164.1	161.4
43.5°	160.8	158.1



TEST NUMBER: P710074

CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	151.2	148.3
45.5°	148.0	145.1
46°	144.9	142.0
46.5°	141.8	139.0
47°	138.8	135.9
47.5°	135.8	132.9
48°	132.7	130.0
48.5°	129.8	127.1
49°	126.8	124.2
49.5°	124.0	121.4
50°	121.1	118.5
50.5°	118.4	115.7
51°	115.6	113.0
51.5°	112.9	110.2
52°	110.3	107.6
52.5°	107.5	105.1
53°	105.0	102.5
53.5°	102.4	100.0
54°	99.9	97.5
54.5°	97.4	95.0
55°	95.0	92.6
55.5°	92.6	90.3
56°	90.3	88.0
56.5°	87.9	85.7
57°	85.7	83.5
57.5°	83.4	81.3
58°	81.1	79.1
58.5°	78.9	77.0
59°	76.8	74.9
59.5°	74.7	72.9
60°	72.7	70.9
60.5°	70.6	68.9
61°	68.6	67.0
61.5°	66.7	65.1
62°	64.9	63.2
62.5°	63.1	61.3
63°	61.4	59.6
63.5°	59.6	57.8
64°	57.8	56.0
64.5°	56.0	54.3
65°	54.2	52.6
65.5°	52.6	50.9
66°	50.9	49.3



TEST NUMBER: P710074
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
67.5°	46.0	44.6
68°	44.4	43.0
68.5°	42.9	41.6
69°	41.4	40.1
69.5°	39.9	38.6
70°	38.4	37.2
70.5°	37.0	35.8
71°	35.6	34.5
71.5°	34.2	33.2
72°	32.9	31.8
72.5°	31.6	30.6
73°	30.3	29.3
73.5°	29.0	28.1
74°	27.7	26.9
74.5°	26.6	25.7
75°	25.4	24.6
75.5°	24.2	23.4
76°	23.1	22.3
76.5°	22.0	21.3
77°	20.9	20.2
77.5°	19.9	19.2
78°	18.9	18.2
78.5°	17.9	17.3
79°	17.0	16.2
79.5°	16.0	15.2
80°	15.0	14.1
80.5°	14.0	13.0
81°	13.0	11.9
81.5°	12.1	10.9
82°	11.2	9.9
82.5°	10.3	9.0
83°	9.5	8.2
83.5°	8.6	7.3
84°	7.8	6.4
84.5°	7.1	5.6
85°	6.3	4.8
85.5°	5.5	3.9
86°	4.7	3.0
86.5°	4.0	2.3
87°	3.3	1.5
87.5°	2.7	0.8
88°	2.3	0.6
88.5°	1.8	0.5



TEST NUMBER: P710074
CATALOG NUMBER: RA4LS9FSD2W1EWHDM-600lm-3500K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	0.7	0.1

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





21.5°	298.4	293.9	289.7	284.0	276.9	275.4	275.2	280.1	284.7	289.6	296.2
22°	296.0	291.4	287.2	281.4	274.3	272.8	272.7	277.8	282.4	287.3	294.0



44°	154.8	147.3	144.8	141.6	135.9	136.2	136.6	142.1	146.0	150.9	157.7
44.5°	151.5	144.1	141.6	138.6	133.0	133.3	133.8	139.1	143.0	147.8	154.5



66.5°	47.7	44.6	42.8	41.1	39.2	39.6	40.2	42.7	44.6	47.0	49.8
67°	46.1	43.1	41.2	39.6	37.7	38.1	38.7	41.1	43.1	45.4	48.1



89°	0.3	1.0	0.5	0.0	0.0	0.0	0.0	0.4	1.1	1.1	2.2
89.5°	0.2	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	1.6

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



21.5°	298.1	298.4
22°	295.8	296.0



44°	157.6	154.8
44.5°	154.3	151.5

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Peachtree City, GA 30269

Scaled Data Report



66.5°	49.2	47.7
67°	47.6	46.1

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Peachtree City, GA 30269

Scaled Data Report



89°	1.4	0.3
89.5°	1.1	0.2

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)